ENVIRONMENTAL CHEMISTS

Date of Report: 04/26/00 Date Received: 04/20/00

Project: Metro Self Monitor, PO# M63954

Date Extracted: 04/24/00 Date Analyzed: 04/25/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Chromium Con	pper <u>Nickel</u> Zi	nc
Laboratory ID		T^{-1}
M63554 0.36 0	0.09	.10
캠핑 경우 그는 아이들은 얼마를 살고 말을 했다.		
가 스타 아이를 내려면 가지 않는 것같	화 왕이는 내를 교육이 말했다면	
Method Blank <0.05 <0	0.05 < 0.05 < 0	.05

ENVIRONMENTAL CHEMISTS

Date of Report: 04/26/00 Date Received: 04/20/00

Project: Metro Self Monitor, PO# M63954

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 004078-01 (Duplicate)

							Relative		k L S
			Reporting	Sample	Ι	Duplicate	e Percent	Acceptan	ce
	Analyte	. 10	Units	Result	100 V 00 0	Result	Difference	Criteria	1
Š	Chromium		mg/L (ppm)	0.74		0.81	9	0-20	
13	Copper		mg/L (ppm)	0.55		0.54	2	0-20	
1	Nickel		mg/L (ppm)	0.71		0.80	12	0-20	SHE
	Zinc		mg/L (ppm)	0.08		0.08	0	0-20	

Laboratory Code: 004078-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery % Recove	ery Acceptanc	е	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	0.74	115	119	80-120	3	20
Copper	mg/L (ppm)	5	0.55	97	99	80-120	2	
Nickel	mg/L (ppm)	10	0.71	113	121	80-120	7	
Zinc	mg/L (ppm)	5	0.08	127 vo	137 vo	80-120	8	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recove	ery Acceptanc	e	Section A.
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	112	111	80-120	1	
Copper	mg/L (ppm)	5	109	108	80-120	1	
Nickel	mg/L (ppm)	10	114	114	80-120	0	
Zinc	mg/L (ppm)	5	119	118	80-120	1	

vo - The value reported fell outside the control limits established for this analyte.

C. J.

B12

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

SAMPLE CHAIN OF CUSTODY

City, State, Zip Secotive Cut- Phone # Col- 828379 FAX # 26-382 970 Date # 20-00 STER NO. PROJECT NAME PURCHASE ORDER # PROJECT NAME PURCHASE ORDER # PROJECT NAME PURCHASE ORDER # PROJECT LOCATION PROJECT	1	Address 628	Handene &						ATh	•
SITE NO. PROJECT NAME PURCHASE ORDER # TZAS SAMPLE S (signature) PROJECT LOCATION SAMPLE DISPOSAL INFORMATION Dispose after 30 days REMARKS Sample # Sample Jars Sample # Requested M63534 Jacob / 2:20 J Ch Cu wi 20 Signature Signature Signature Signature Sample # Requested Signature Print Name Company Pate Time Signature	(City, State, Zip See	the up		5a/ 8	n	5		1200	
SAMPLES (signature) PROJECT LOCATION SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Call for Instructions Analyses Sample # Requested M63959]	Phone # 706- 88	0-8379	FAX #	06-3	82-4307	Ĺ	Date /	-00-co	
SAMPLE SIGNATURE REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Sample # Sample # Sample # Requested M6 3554 //2000 /2.20 //200 //200 //200 SIGNATURE SIGNATURE PRINT NAME COMPANY Date Time Received by: Received by: Received by: Retinguished by: Received by: Refinquished by:	_	SITE NO.						PURCHASE	ORDER#	
SAMPLE SIGNATURE REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Sample # Sample # Sample # Requested M6 3554 //2000 /2.20 //200 //200 //200 SIGNATURE SIGNATURE PRINT NAME COMPANY Date Time Received by: Received by: Received by: Retinguished by: Received by: Refinquished by:		7238		matro s	els mo	on ter	n	1 6395		
REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Call for Instructions Sample # Sample # Requested Park O /2:20 / 20 / 20 / 20 / 20 / 20 / 20 / 2		SAMPLERS (signatufe)					,	PROJECT L	OCATION	
Dispose after 30 days Return Samples Sample # Sampled Sample # of Lab Analyses Requested Date/Time Sample # of Lab Analyses Requested Dispose after 30 days Return Samples Analyses Requested	5	Sm/5					32	90 G	4 Aug	5 2
Return Samples Call for Instructions Sample # Sampled Sample Jars Sample # Requested Mb 3959	F	REMARKS						IPLE DISPOSA	L INFORM	ATION
Sample # Sampled Sample Jars Sample # Requested Mb 3954								Return Samp	les	
SIGNATURE PRINT NAME COMPANY Date Time Received by: Received by: Received by: Relinquished by: Rel		Comple #					#			
SIGNATURE PRINT NAME COMPANY Date Time Relightshed by: Received by: Received by: Relinquished by: Relinquished by: Relinquished by:				. //	Jais	Sample				2 1
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	Ľ	1163124	1/24/00 /2:2	5 1720	/			Ch. Cu	NI C	<u>س</u>
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:		194 		İ						1177.50
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:										
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	-									
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	L							·		
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:				1						
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:										
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	-			- 	 			A		
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	L									
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:										
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	-						····			
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	L									
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:					1					
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	\vdash									
Received by: Received by: Relinquished by:	-				 					
Received by: Received by: Relinquished by:	<u></u>									
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:										
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	\vdash									
Received by: Received by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by:	L									
Received by: Received by: Relinquished by:		/	9							
Received by: Tony Elias Friedm. Bry 1/20/00 1.18 Relinquished by:	S	IGNATURE /		PRINT NAME		COMPA	NY	Да	te	Time
Received by: Tony Elias Friedm. Bryan 1/20/00 1.18 Relinquished by:	P	elinguished by:		11.1		ACL	. 7	11	/	1/0
Relinquished by: Relinquished by:		West Tot	- 5 COKE	19 M. Mort	2Sau				$\frac{1}{2}$	1/6
Relinquished by:	R	eceived by: \ \	· 1 Ton	7 Fline	Fr	column -	Bra	- Yhol	00 1	18
	Ļ	1.00	1) 1193	111) 1 -		-,0
Received by:	R	elinquished by:						ĺ		
	R	eceived by:		2 2	1		24 8		2 22 1/2	

FORMS/COC

03/23/00

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 26, 2000

DUPLICATE COPY

INVOICE #00ACU0426-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M63954 - Results of testing requested by Gerald A. Thompson for material submitted on April 20, 2000.

1 sample analyzed for Total Chromium,
Copper, Nickel, and Zinc
by Method 6010 @ \$80 per sample \$80.00

Amount Due \$80.00

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 26, 2000

Gerald A. Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 20, 2000 from your Metro Self Monitor, PO# M63954 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kate Trafton Project Manager

Enclosures ACU0426R.DOC